

FIG. 1

FIG. 2 is a block diagram of a system 100 in accordance with one embodiment of the present invention. The system 100 includes a processor 102, a memory 104, and a user interface 106. The processor 102 is configured to execute a program 108 stored in the memory 104. The user interface 106 is configured to receive input from a user and provide output to the user. The program 108 includes a normal processing mode 110 and a guarded processing mode 112. The normal processing mode 110 is configured to process data in a normal manner. The guarded processing mode 112 is configured to process data in a guarded manner, which may include monitoring the data and performing a ventricular therapy processing zone 114. The system 100 may be implemented in a variety of different environments, including a medical device, a computer system, or a networked system.

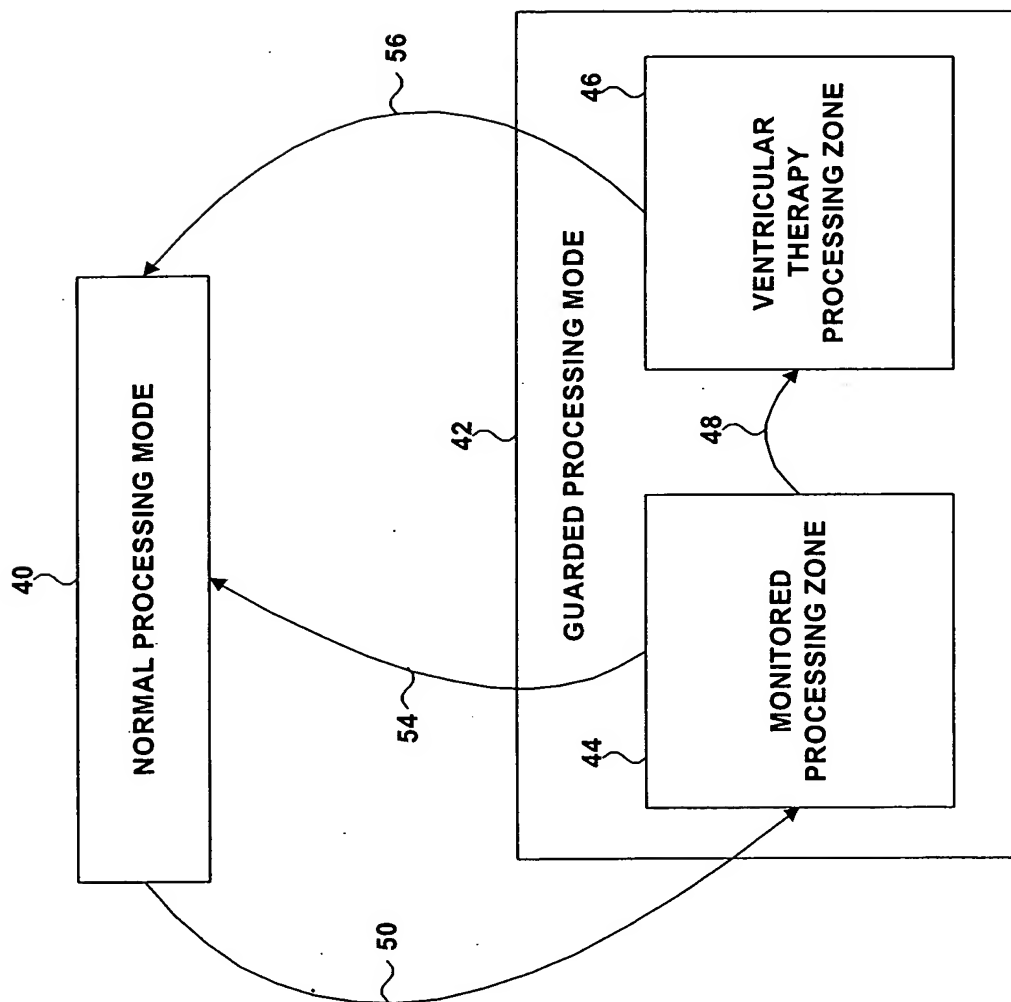


FIG. 2

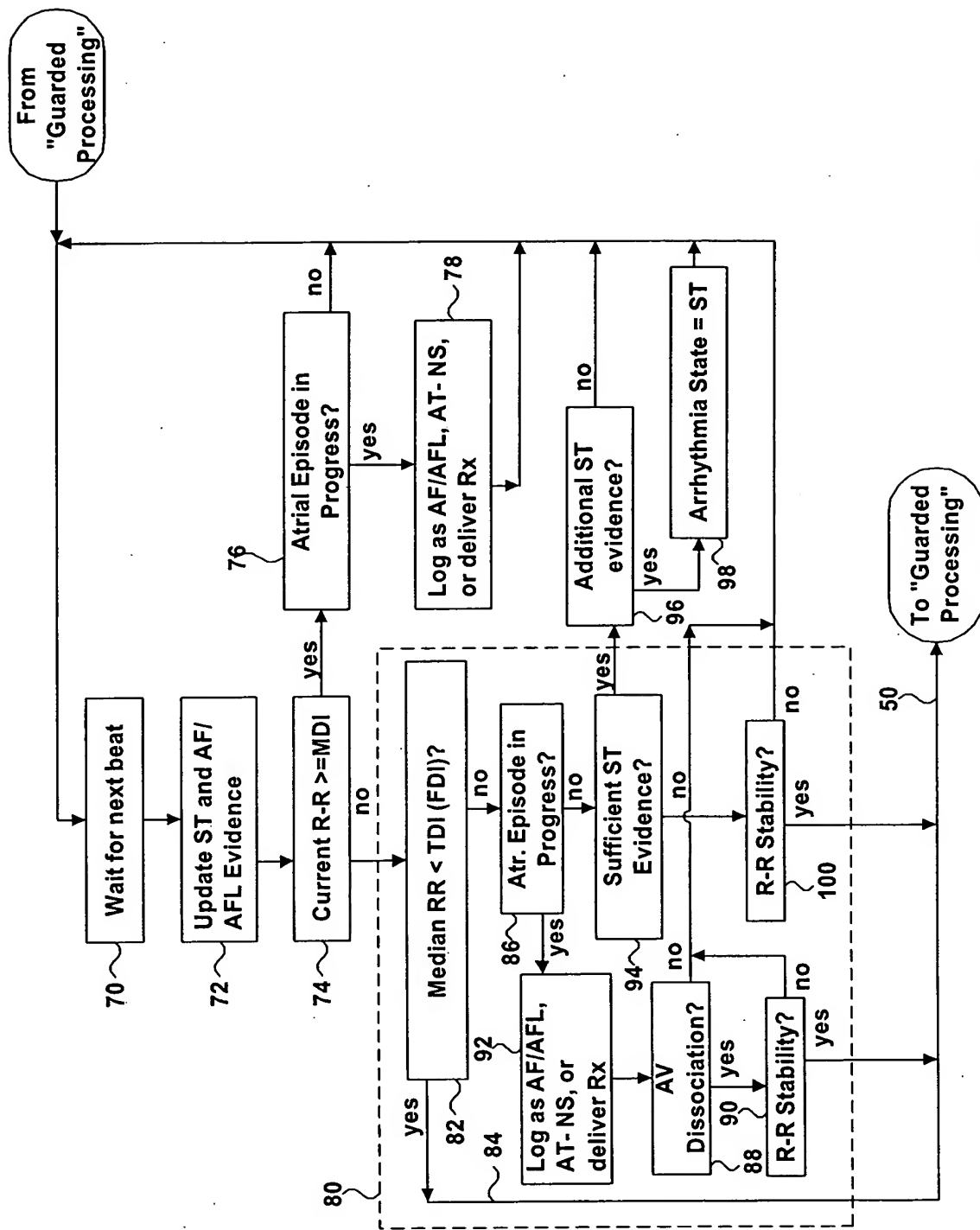


FIG. 3

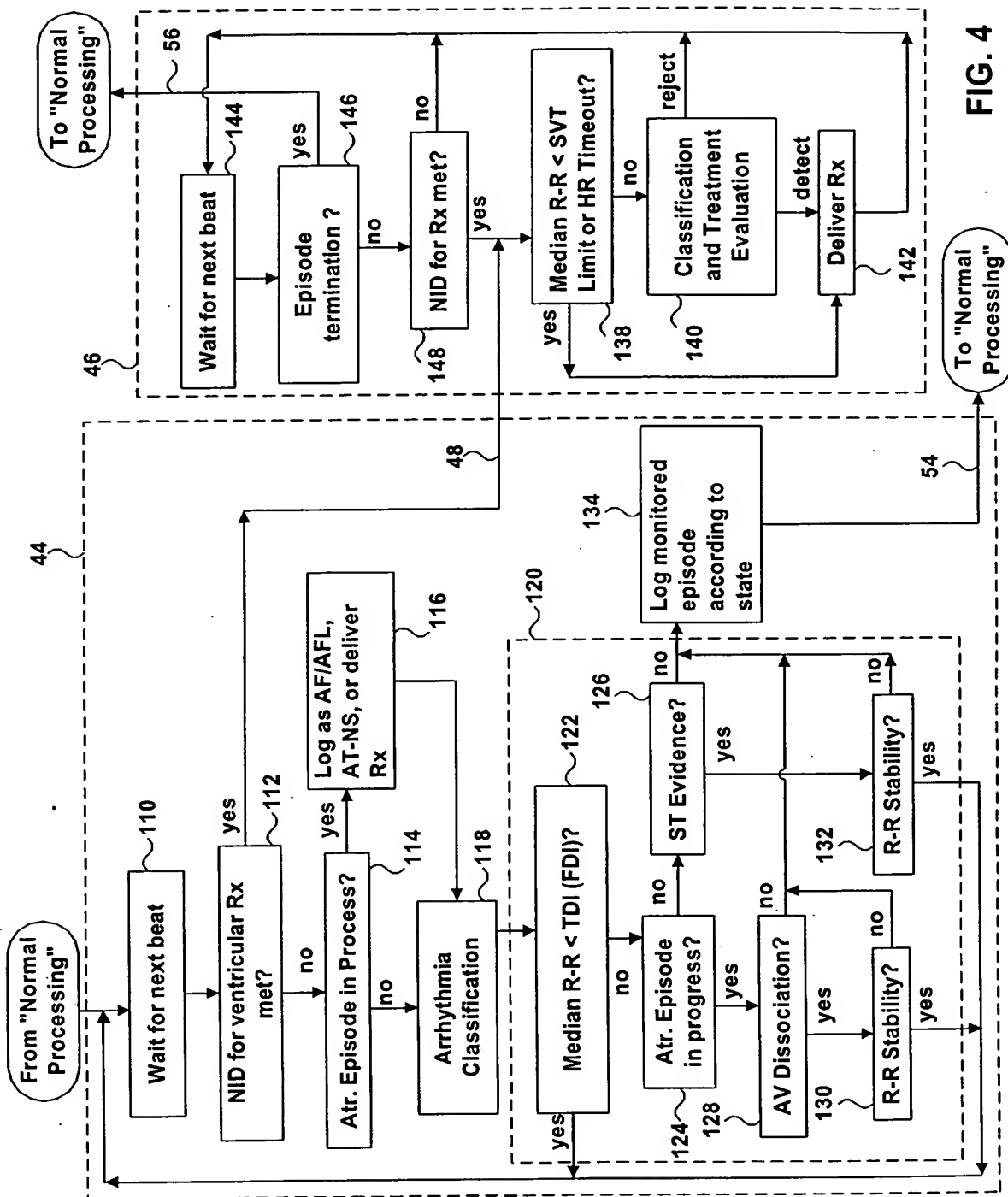


FIG. 4

The diagram illustrates a mode switching mechanism between two states: **NORMAL PROCESSING MODE** and **GUARDED PROCESSING MODE**.

- 40** is a rectangular box labeled **NORMAL PROCESSING MODE**.
- 42** is a rectangular box labeled **GUARDED PROCESSING MODE**.
- 50** is a curved arrow pointing from the bottom of box 40 to the bottom of box 42, representing a transition from Normal to Guarded mode.
- 160** is a curved arrow pointing from the top of box 42 to the top of box 40, representing a transition from Guarded back to Normal mode.

```
graph TD; 40[NORMAL PROCESSING MODE] -- 50 --> 42[GUARDED PROCESSING MODE]; 42 -- 160 --> 40;
```

FIG. 5

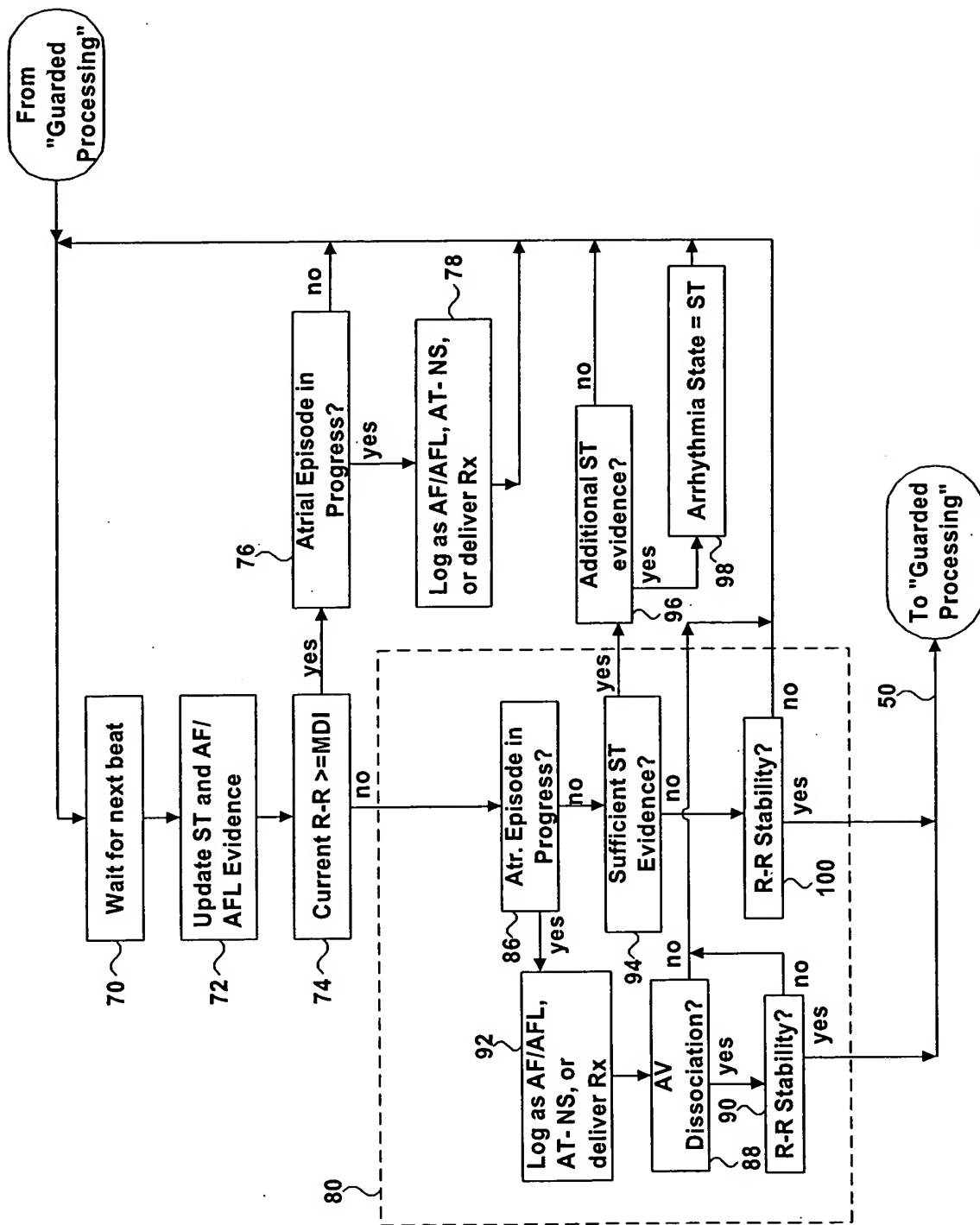


FIG. 6

FIG. 7 is a flowchart illustrating a method for monitoring and processing cardiac arrhythmias. The process begins with a decision point 110, "Wait for next beat". If a beat is detected, the process proceeds to decision point 114, "Atr. Episode in Process?". If the answer is "yes", the process proceeds to decision point 116, "Log as AF/AFL, AT-NS, or deliver Rx". If the answer is "no", the process proceeds to decision point 118, "Arrhythmia Classification". From decision point 118, the process proceeds to decision point 170, "VT, VF or dual tachycardia?". If the answer is "yes", the process proceeds to decision point 172, "Rx". If the answer is "no", the process proceeds to decision point 120, "Log monitored episode according to state". From decision point 120, the process proceeds to decision point 122, "Atr. Episode in progress?". If the answer is "yes", the process proceeds to decision point 124, "AV Dissociation?". If the answer is "yes", the process proceeds to decision point 126, "R-R Stability?". If the answer is "yes", the process proceeds to decision point 128, "ST Evidence?". If the answer is "yes", the process proceeds to decision point 130, "R-R Stability?". If the answer is "yes", the process proceeds to decision point 132, "Log monitored episode according to state". If the answer is "no" at any of the decision points 122, 124, 126, 128, or 130, the process proceeds to decision point 134, "To 'Normal Processing'".

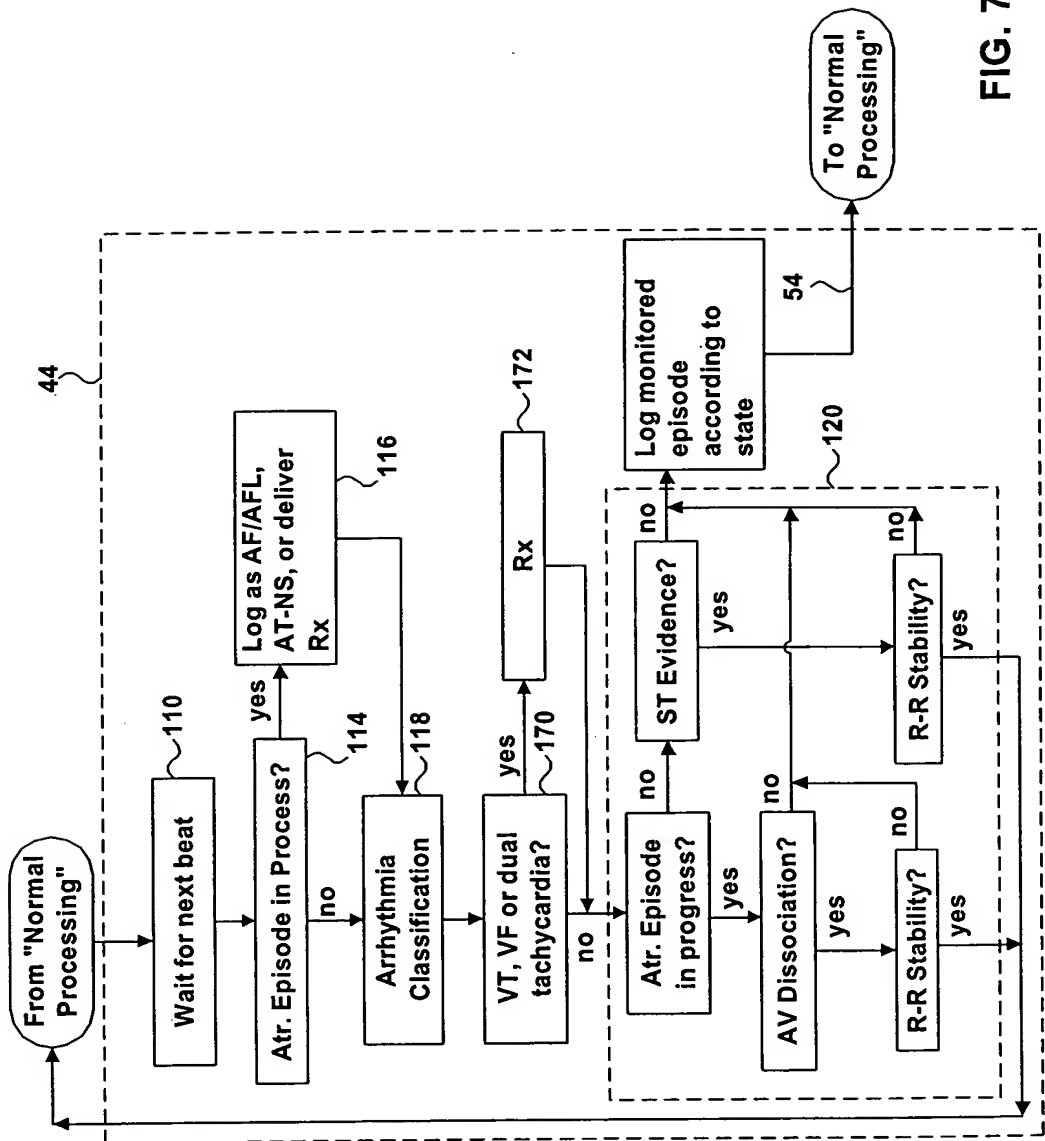


FIG. 7